

PROJECT TITLE : ROSA
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OBJECTIVE

The objective of Project ROSA is to produce cigarettes with reduced mainstream and sidestream nitrosamine delivery.

EXPERIMENTAL

In order to study the influence of nitrosation inhibitors, cigarettes have been prepared from burley tobacco (Project SPOTLESS, ØS-B-BU). The additives used were a cocktail of reducing sugars (sucrose, fructose and glucose), sorbic acid, BHA (butylated hydroxyanisole), vanillin, BHT (butylated hydroxytoluene), cysteine, sorbic acid mixed with potassium sorbate and potassium bisulfite. These cigarettes are currently being analysed for nitrosamine sidestream deliveries.

In order to continue and confirm earlier findings (1), cigarettes have been prepared (MLF 21 MUM 1) with 18 mm CA filters loaded with 0 to 10% triacetin. They will be analysed for mainstream nitrosamine deliveries.

FUTURE PLANS

Cigarettes should be prepared for mainstream nitrosamine deliveries using less volatile plasticizers than triacetin. The possibility of fibre cross section and denier should also be investigated.

REFERENCES

- (1) Moser-F. PME Monthly Progress Reports - June, October, November 1980.

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